

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	325	(706/16).CCLS.	USPAT; USOCR	OR	OFF	2007/12/05 17:26

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1671	convolution\$3 decod\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/05 15:35
L2	34993	neural network	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/05 15:36
L3	166834	training	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/05 15:36
L4	249	(input-output or input output) difference	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/05 15:37
L5	65591	recurrence or recurrent	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/05 15:38
L6	473	error backpropagation or error back propagation or error-backpropagation	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/05 15:39
L7	4861	error backpropagation or error back propagation or error-backpropagation or error backprop or back propagation or backpropagation or backprop	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/05 15:40

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L8	0	1 with 7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/05 15:40
L9	0	1 same 7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/05 15:41
L10	1	1 and 7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/05 15:44
L11	3	1 with 2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/05 15:44
L12	3	1 same 2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/05 15:56
L13	557029	decod\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/05 15:56
L14	406	2 with 13	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/05 15:57

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L15	7	14 with 7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/05 16:24
L16	1	("6052349").PN.	USPAT; USOCR	OR	OFF	2007/12/05 16:55
L17	1	("5168551").PN.	USPAT; USOCR	OR	OFF	2007/12/05 16:55
S1	2	((("5548684") or ("6734385"))).PN.	USPAT; USOCR	OR	OFF	2007/12/05 13:08
S2	3	((("5548684") or ("6734385") or ("4972473"))).PN.	USPAT; USOCR	OR	OFF	2007/12/05 13:09

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[An artificial neural net Viterbi decoder](#) - Wang - Cited by 15

[Theory and application of neural networks for 1/n rate ...](#) - Berber - Cited by 5

[Tail-recursive Distributed Representations and Simple ...](#) - Kwasny - Cited by 37

A novel **Decoder** Structure for **Convolutional** Codes based on a ...  
training sets are used. The **network** is first trained .... For **comparison**, a **MAP decoder**  
based on a ... efficient **neural decoder for convolutional co-** ...  
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task of a **convolutional decoder** can be described, as the mapping of the sequence of  
encoded and .... training sets are used. The **network** is first trained ...  
[ieeexplore.ieee.org/iel5/3505/10431/00488143.pdf?arnumber=488143](http://ieeexplore.ieee.org/iel5/3505/10431/00488143.pdf?arnumber=488143) - Similar pages  
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#### Neural networks decoder - Patent 20040220891

A method of **training a neural network** to perform decoding of a ... invention allows  
parameter data defining a **convolutional decoder** to be transmitted to a ...  
[www.freepatentsonline.com/20040220891.html](http://www.freepatentsonline.com/20040220891.html) - 57k - Cached - Similar pages

#### EP904649 Motorola european software patent - Msle decoder with ...

EP904649 Motorola Ltd (GB): **Msle decoder with neural network** Mlse-dekoder mit  
neuronalnetzwerk ... 1 is a representation of a prior art **convolutional** coder. ...  
[gauss.fhii.org/PatentView/EP904649](http://gauss.fhii.org/PatentView/EP904649) - 51k - [Cached](#) - Similar pages

#### Artificial neural network viterbi decoding system and method - US ...

1990, that the **neural network** decoding system with **training** is limited to very small codes  
like the Hamming code and **convolutional** codes with constraint ...  
[www.patentstorm.us/patents/5548684-description.html](http://www.patentstorm.us/patents/5548684-description.html) - 66k - [Cached](#) - Similar pages

#### ScienceDirect - Engineering Applications of Artificial ...

A **recurrent neural decoder** for **convolutional** codes. ... A generalised framework for  
**convolutional** decoding using a **recurrent neural network**. ...  
[linkinghub.elsevier.com/retrieve/pii/S0952197605000606](http://linkinghub.elsevier.com/retrieve/pii/S0952197605000606) - Similar pages

#### Speech Communication : Dynamic behaviour of connectionist speech ...

2 that shows how the dynamic properties of the **neural network** can .... the performance of  
the **decoder**, but rather in ruling out from the **comparison** factors ...  
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#### [PDF] FPGA Prototyping of RNN Decoder for Convolutional Codes

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This paper presents prototyping of a **recurrent type neural network (RNN) convolutional decoder** using system-level design spec- ...  
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ing the training (by an **Error Back-Propagation** algorithm. [14]),. the **network** is used  
as ..... questionable whether the **neural network** must try to optimize ...  
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Steve ...

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**Error.** 8.1. 8.3. 9.5. 7.5. MLP. MLP. RNN. RNN. Figure 1. Comparison of acoustic front  
ends using. an MLP and a **recurrent network** on the Resource ...  
www.cstr.ed.ac.uk/downloads/publications/1994/icslp94-gamma.ps.gz - Similar pages

Waveform equalizer and memory device having a waveform equalizer ...  
a nonlinear equalizer for carrying out a feedforward **neural network** type nonlinear .....  
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as a **convolution** of a characteristic postsynaptic conductance function .....  
**backpropagation network** Neural lqfarmnriion Processing Systems YOI 2 ed D ...  
www.iop.org/EJ/article/0031-9155/36/10/001/pb911001.pdf - [Similar pages](#)

"Neural Network Based Equalization". In: Adaptive Wireless ...  
**recurrent neural network.** [253]. distinguishes itself from .... equaliser using the **error back**  
**propagation** algorithm has a slower convergence rate than the ...  
doi.wiley.com/10.1002/047084776X.ch8 - Similar pages

[PDF] Technical Report CAIP-TR-234 A NEURAL NETWORK SYSTEM FOR ROBUST ...  
File Format: PDF/Adobe Acrobat  
For this purpose, a system of microphone array and **neural network** (MANN) has ..... The  
**error back-propagation** algorithm [134] can still be used with the ...  
www.caip.rutgers.edu/multimedia/speech-recognition/caip-tr-234.pdf - Similar pages

Keyword Index a-Si:H, 763 abstraction, 385 action hierarchies, 385 ...  
... 335 convergence of stochastic gradient descent, 335 **convolution network**, ... 287,  
467475 **error feedback**, 1031 ERS- 1 satellite, 641 estimation, ...  
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**Recurrent** Network. The neuron. Bias as extra input. ... Relevance **Feedback**. Interaction between User and System. **Comparison** of the two approaches. ...

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**Proceedings of the IEEE-INNS-ENNS international joint conference ...**

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[Duffy, Michael Collins and Nigel Duffy, Convolution Kernels for Natural Language ...](#)

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